

Safety Valves

Type 06370



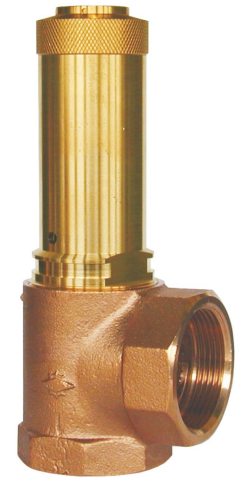
Safety Valves, angle type, bronze, type tested TÜV-SV.749. L

Standard safety valve
with soft valve seal for fluids, open bonnet,
with diaphragm for protection of the spring, with lifting device
In- and outlet: female thread type G (BSP) acc. to ISO 228/1

Part No. 06370.X.0000 with NBR valve seal

Part No. 06370.X.0700 with FPM valve seal

Pressure range in bar:	NBR	FPM	NBR	FPM
Nom. size 1/2":	1.0 - 11.0	1.0 - 16.0	Nom. size 3/4":	1.0 - 10.5
Nom. size 1":	1.0 - 10.0	1.0 - 16.0	Nom. size 1-1/4":	1.0 - 16.0
Nom. size 1-1/2":	1.0 - 8.5	1.0 - 16.0	Nom. size 2":	1.0 - 16.0



Available options - on request only:

- stainless steel spring - material 1.4571
- external parts nickel plated

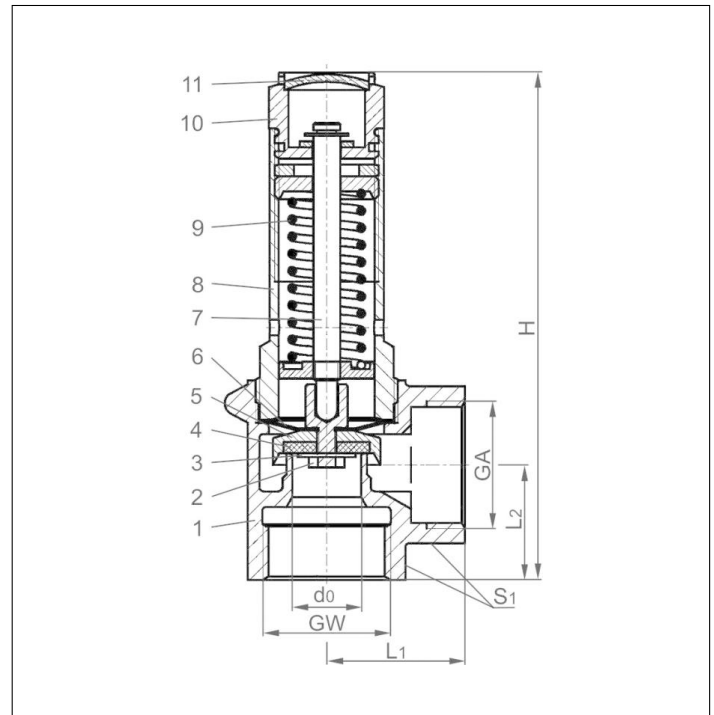
Applications:

Provided as safety device for protection against excessive pressure in gas cylinders and pressure vessels.

Approved for non-adhesive fluids, which are not vaporized during blow off.

Working temperature: -10°C / +14°F (263K) up to +110°C / +230°F (383K), suitable for horizontal installation

Materials	DIN EN	ASME/ASTM
1 Body	CC491K	B 62 UNS C83600
2 Disc nut	CW614N	B 249 UNS C38500
3 Plate	CW507L	B 36 UNS C26800
4 Valve seal	NBR or FPM	
5 Disc	CW614N	B 249 UNS C38500
6 Diaphragm	NBR	
7 Stem	CW614N	B 249 UNS C38500
8 Bonnet	CW614N	B 249 UNS C38500
9 Spring	1.1200	A 227
10 Lifting device	CW614N	B 249 UNS C38500
11 Closing cap	CW507L	B 36 UNS C26800



Type 06370	Technical data						
Nominal size	GW	1/2	3/4	1	1-1/4	1-1/2	2
Orifice	d ₀	12	15	18	20	24	28
Dimension code	.X.	0400	0600	1000	1200	1400	2000
Set pressure range	bar	1.0-16	1.0-16	1.0-16	1.0-16	1.0-16	1.0-16
Outlet	GA	1/2	3/4	1	1-1/4	1-1/2	2
Height	H	92	111	132	152	175	200
Length	L ₁	25	30	36	40	48	56
Length	L ₂	20	25	30	35	40	48
Wrench size across flats	S ₁	27	32	41	50	58	70
Weight	ca. kg	0.24	0.40	0.70	1.07	1.65	2.65
Coeff. of discharge	α _w	0.20	0.25	0.31	0.39	0.42	0.38

Dimensions in mm.

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Discharge capacities

Calculation of flow rate acc. to AD2000-Merkblatt A2

Medium:

Water in kg/h at 20°C

The capacity indicated below is for a fully opened valve.

d_0 - orifice

A_0 - flow area

Set pressure in bar (g)	GW	1/2	3/4	1	1-1/4	1-1/2	2
	d_0 (mm)	12.0	15.0	18.0	20.0	24.0	28.0
	A_0 (mm ²)	113.1	176.7	254.5	314.2	452.4	615.8
	Medium	Water					
1.0		1208	2359	4212	6543	10146	12495
2.0		1708	3336	5957	9253	14349	17670
3.0		2092	4086	7296	11332	17573	21641
4.0		2416	4718	8425	13085	20292	24989
5.0		2701	5275	9419	14630	22687	27939
6.0		2959	5779	10318	16026	24853	30606
7.0		3196	6242	11145	17310	26844	33058
8.0		3416	6673	11915	18505	28697	35340
9.0		3624	7077	12637	19628	30438	37484
10.0		3820	7460	13321	20689	32085	39512
12.0		4184	8172	14592	22664	35147	43283
14.0		4519	8827	15761	24480	37963	46751
16.0		4831	9436	16850	26170	40584	49979